

IN THE CLAIMS

Please replace the claims as filed with the claims set forth below. This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An electromechanical converter comprising:
a primary shaft having a rotor mounted thereon;
a secondary shaft having an interrotor mounted thereon; and
a stator fixedly mounted to a housing of the electromechanical converter, wherein, viewed from the primary shaft in a radial direction, the rotor, the interrotor, and the stator are arranged concentrically relative to each other, and wherein the rotor and the stator comprise one or more windings, and wherein the interrotor comprises one whole both mechanically and electromagnetically, and ~~is arranged as a conductor for the magnetic flux in an at least tangential direction~~the interrotor further comprises a magnetic and an electric circuit, the magnetic circuit including a magnetic flux conducting cylinder and the electric circuit including a number of electric circuit-forming windings extending in the flux conducting cylinder, and wherein the interrotor is arranged as a conductor for the magnetic flux in a tangential and a radial direction so that exertion of a direct torque between rotor and stator can occur upon magnetic saturation of the interrotor.
2. (Previously presented) The electromechanical converter according to claim 1, characterized in that the interrotor comprises an electric and a magnetic circuit, and the magnetic circuit comprises a cylinder having two sides, with both sides defining longitudinally extending grooves in which electric circuit-forming shortcircuit windings extend.
3. Cancelled.
4. (Currently Amended) The electromechanical converter according to claim 1, characterized ~~ey-by~~ the interrotor being formed by a magnetic flux conducting cylinder, and the electromechanical converter further comprises:
permanently magnetic material applied on a first side of the interrotor; and

longitudinally extending grooves associated with a second side of the interrotor in which an electrically accessible winding is provided.

5. (Previously presented) The electromechanical converter according to claim 1, characterized by the stator winding and rotor winding being mutually connected with each other via one or more power electronic converters.

6. (Previously presented) The electromechanical converter according to claim 5, characterized by said one or more power electronic converters being electrically accessible via an electric gate.

7. (Previously presented) The electromechanical converter according to claim 1, characterized in that the stator winding and rotor winding are separately accessible through a power electronic converter and an electric gate.

8. (Previously presented) An apparatus provided with an electromechanical converter according to claim 1.

9. (Previously presented) An apparatus provided with an electromechanical converter according to claim 1, wherein the apparatus is selected from the group consisting of an apparatus for starting a driving combustion engine and an apparatus for supplying electrical equipment.

10. (Previously presented) The apparatus provided with an electromechanical converter according to claim 8, further comprising a system for the storage of energy.